



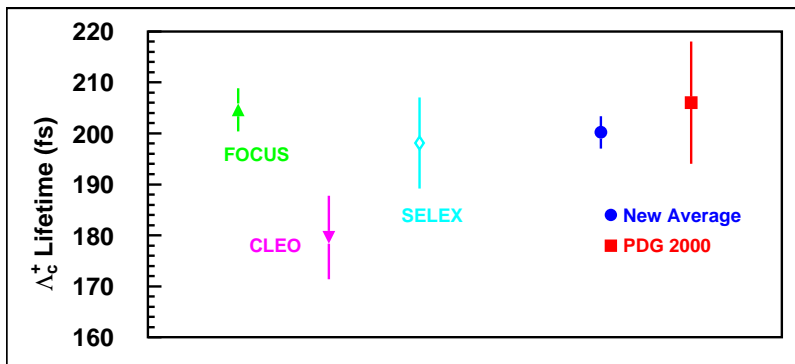
New Published Baryon Lifetimes

$\tau(\Lambda_c^+) = 204.6 \pm 3.4$ (stat.) ± 2.5 (syst.) fs, [8034 \pm 122 evts.] accepted by PRL

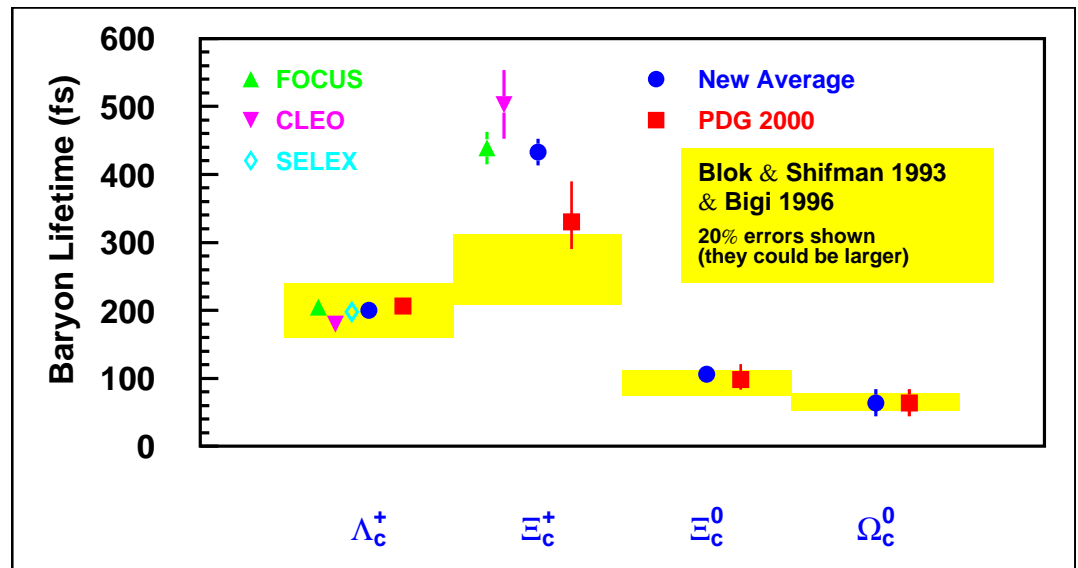
$\tau(\Xi_c^+) = 439 \pm 22$ (stat.) ± 9 (syst.) fs, [581 \pm 32 evts.] published in PLB

➡ Benchmark for Mixing and time-dependent CP measurements

➡ Test or Guide for non-perturbative QCD calculations



2.7 σ difference between FOCUS and CLEO



$\tau(\Xi_c^+)$ larger than expected

➡ Resolve possible systematics in FT vs e^+e^- lifetime measurements

➡ Large $\tau(D_s^+)/\tau(D^0)$ and $\tau(\Xi_c^+)/\tau(\Lambda_c^+) \Rightarrow$ larger than expected W-X/W-A contributions

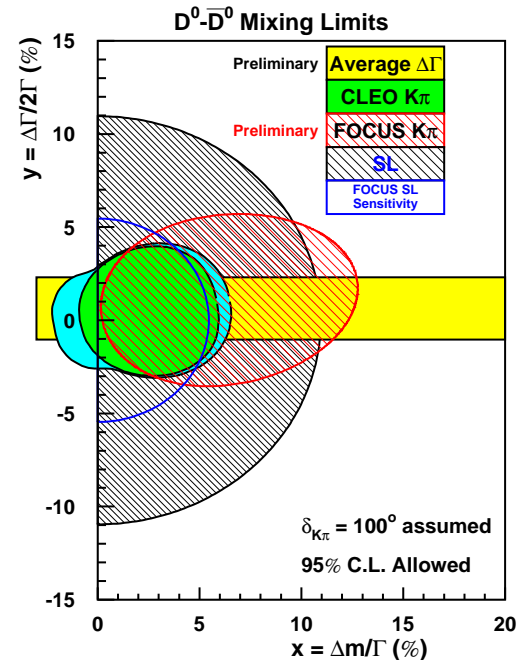
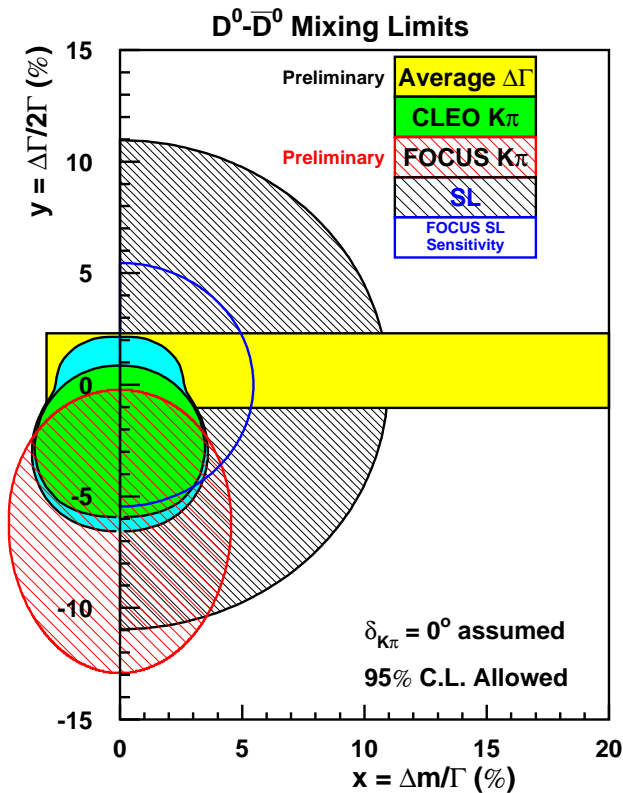
D-Mixing Results Update

- Landscapes changed by Belle, BaBar and CLEO $\Delta\Gamma$ Results
- New FOCUS (x', y') contour shows D-Mixing is still interesting

Results are still exciting and we need more!

Need to combine likelihoods/results

We need δ ! Favors $y = 0$, $x = \text{few } \%$, $\delta = 100^\circ$



- Many other results not shown, 40 active analyses many shown at conferences
- 10 Papers published (or accepted) in PRL and PLB, 2 published in NIM